*This section will replace the current Total Nitrogen Reduction Policy

5.13 Total Nitrogen Reduction Approvals~~Policy~~

Revision: ~~August 30, 2012~~ August 20, 2015

On-site wastewater systems that qualify as best practical methods for the targeted nitrogen reduction amount appear in ~~Table 8-1~~Table 5-14. Areas of concern, such as nitrate priority areas, areas with shallow soils over bedrock, or a shallow depth to ground water, may be required to use one of these best practical methods to reduce the development's or home's environmental impact. Values listed in the TN column should not be exceeded to ensure that the required TN reduction percentage is attained. These TN values may be used in NP evaluations to evaluate the impact on ground water resources. Products installed for reduction of TN < 27 mg/L are subject to effluent testing (see section 4.8).

Table ~~8-15-14~~. ~~Best practical methods for~~ On-site wastewater systems approved for total nitrogen reduction.

System or Manufacturer Product and Model ~~Best Practical Method~~	Total Nitrogen Reduction[a] (%)	Total Nitrogen[a] (mg/L)	Minimum Source Water Alkalinity[b] (mg/L)	~~Operations and Maintenance Provider~~
Public Domain Systems				
Intermittent Sand Filters (ISF)	15[c]	38	108	~~Property owner~~
Recirculating Gravel Filters (RGF)	40[c]	27	189	~~Property owner~~
Extended Treatment Package Systems				
Busse Innovative Systeme GmbH–MF-B-400	30	32	156	~~Nonprofit O&M corp.~~
Delta–Ecopod	30	32	156	~~Nonprofit O&M corp.~~
Delta–Whitewater	30	32	156	~~Nonprofit O&M corp.~~
Nayadic	30	32	156	~~Nonprofit O&M corp.~~
Norweco–Singulair	30	32	156	~~Nonprofit O&M corp.~~
Norweco–Singulair TNT	30	32	156	~~Nonprofit O&M corp.~~
Southern Manufacturing	30	32	156	~~Nonprofit O&M corp.~~
Jet Inc.	32[d]	31	163	~~Nonprofit O&M corp.~~
~~Recirculating Extended Treatment Package System~~				
SeptiTech	55[e,f]	20	180 mg/L	~~Nonprofit O&M corp.~~
Orenco–AdvanTex	65[e,f]	16	269 mg/L	~~Nonprofit O&M corp.~~
BioMicrobics	65[f]	16	269 mg/L	~~Nonprofit O&M corp.~~

a. Quantifiable values (milligram per liter [mg/L]) will indicate compliance with the qualitative TN reduction limit expressed as a percentage (%) reduction.
b. Minimum recommended source water alkalinity to support nitrification in the denitrification process. Use of water softeners is not recommended due to potentially detrimental effects on the biological processes.
c. Literature value
d. Idaho testing
e. Third party (Environmental Technology Verification Program)
f. National Science Foundation data